

POWERPLAY TECH



Team Members

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Project Title: Eagles Academy Website

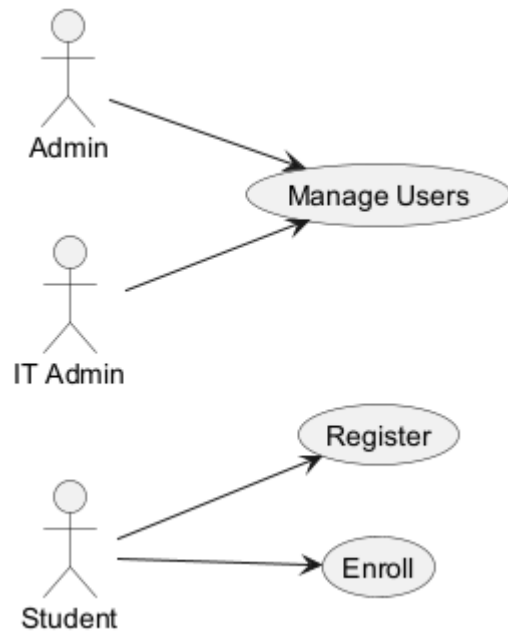
Client: Eagles Academy and Adults Education – Kyeremankomah, Kintampo North

Contact: 0553964007

Problem Recap

The Eagles Academy and Adults Education platform aims to streamline student enrollment and administrative management for a modern educational institution. The system addresses inefficiencies in manual processes, enhances data accuracy, and improves user experience for students, staff, and administrators.

Use-Case Diagram



Use-Case Descriptions

- **Register:** Actor – Student; Trigger – Student accesses registration page; Normal Flow – Student enters details, submits form, receives confirmation.
- **Enroll:** Actor – Student; Trigger – Student enters details; Normal Flow – System validates, enrolls student, sends confirmation.
- **Manage Users:** Actor – Admin; Trigger – Admin logs in; Normal Flow – Admin views, edits, or deletes user accounts.

2. User Stories (US)

ID	User Story	Traceability
US-1	As a student, I want to register online so I can access the platform.	UC-1

US-2	As a student, I want to enroll so my data is recorded.	UC-2
US-3	As an admin, I want to manage user accounts so I can keep records updated.	UC-3

All stories are Independent, Negotiable, Valuable, Estimable, Small, and Testable (INVEST).

3. Preconditions & Postconditions

Preconditions:

1. Database is initialized and accessible.
2. User interface is loaded in a supported browser.

Postconditions:

1. New users are registered and stored in the database.
2. Enrollment records are updated.

4. Story Sizing & Epics

Epic ID	Description	Decomposition
E1	Student Onboarding	US-1, US-2
E2	Admin Management	US-3

5. Non-Functional Requirements

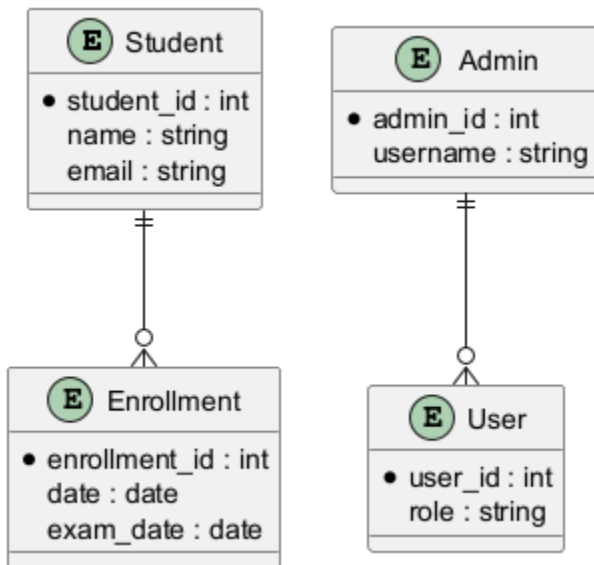
ID	Quality Attribute	Requirement	Rationale	Measurement/Test
NFR-SEC-01	Security	All user data must be encrypted in transit and at rest.	Protect sensitive information.	Penetration test, code review
NFR-PER-01	Performance	System must support 100 concurrent users with <2s response time.	Ensure usability during peak periods.	Load testing
NFR-REL-01	Reliability	System uptime must be $\geq 99\%$ per semester.	Minimize disruption to users.	Uptime monitoring
NFR-USAB-01	Usability	UI must be accessible (WCAG 2.1 AA).	Ensure inclusivity for all users.	Accessibility audit
NFR-MAINT-01	Maintainability	Codebase must follow PSR-12 and be documented.	Facilitate future updates and onboarding.	Code linting, documentation

6. Glossary

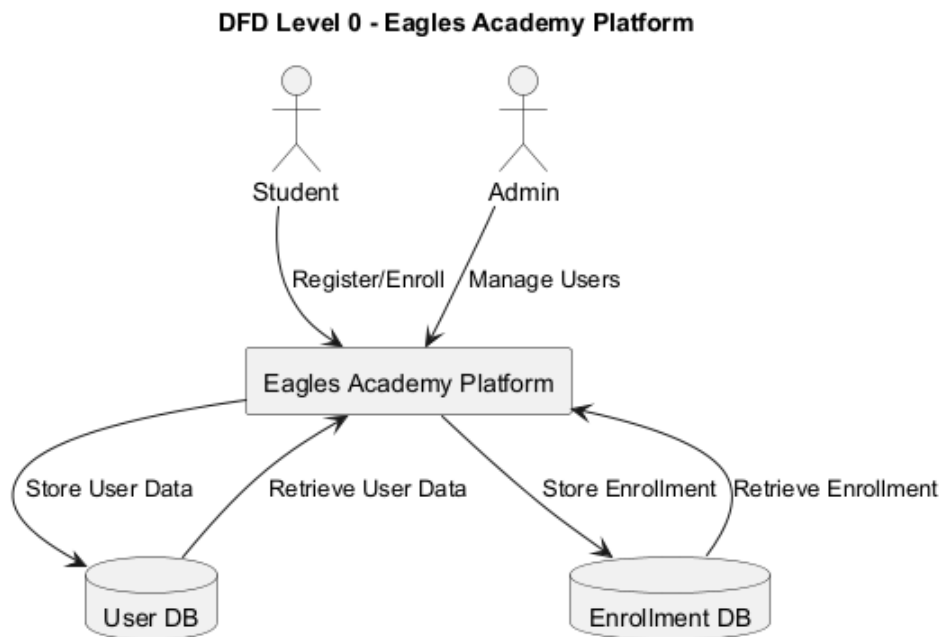
- Admin: User with privileges to manage accounts and system settings.
- Enrollment: The process of registering a student for courses.
- Student: End-user seeking to register and enroll in courses.

7. Supplementary Diagrams

Entity Relationship Diagram



Data Flow Diagram-Level 0



Data Flow Diagram-Level 1

